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(54) **BALLISTIC IMPACT DETECTION SYSTEM**

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(52) **U.S. Cl.** **702/127**

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See application file for complete search history.

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(57) **ABSTRACT**

A wearable ballistic impact protection system detects impacts to a body. The system includes multiple sensors for detecting vibration. The sensed vibrations are converted to electrical signals which are filtered. Electronic components are provided to determine whether the filtered signal have frequency and amplitude characteristics of impact that cause injury to a body. Preferably, the sensors are Piezo-electric film sensing elements. Information regarding the extent of the impact and injuries to the body may be transmitted to a remote location so that medics or other personnel may be informed to the extent of injuries to the body so that they may provide medical assistance.

18 Claims, 30 Drawing Sheets

